

IN THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the instant application. The present status of each claim is indicated in parentheses following the claim number. An instruction line precedes each claim that is amended, cancelled, or added by the instant paper.

1. (PREVIOUSLY AMENDED) An isolated DNA molecule  
comprising a nucleotide sequence encoding a protein  
comprising the amino acid sequence of SEQ ID NO:4,  
wherein said protein has lysozyme activity.
2. (CANCELLED)
3. (PREVIOUSLY AMENDED) The DNA molecule of Claim 1  
wherein said nucleotide sequence comprises the  
nucleotide sequence of nucleotides 81-521 of SEQ ID  
NO:3.
4. (CANCELLED)
5. (CANCELLED)
6. (ORIGINAL) A vector containing the DNA sequence of  
Claim 1.
7. (ORIGINAL) A host cell transformed by the vector of  
Claim 6.

8. (PREVIOUSLY AMENDED) The host cell of claim 7 which is *E. coli*.
9. (PREVIOUSLY AMENDED) The host cell of claim 7 which is a eukaryotic cell.

Please **cancel** claim 10 without prejudice.

10. (CANCELLED)

Please **amend** claim 11 as follows:

11. (CURRENTLY AMENDED) ~~The method of Claim 10~~ A method for producing an LYC3 protein having lysozyme activity comprising:

(a) introducing an expression vector for production of LYC3 protein, said vector comprising a nucleotide sequence encoding a protein having the amino acid sequence of SEQ ID NO:4 or of amino acids 19-146 of SEQ ID NO:4, wherein said nucleotide sequence is operably linked to at least one expression control sequence, into a host cell, thereby forming a recombinant host cell;

(b) culturing the recombinant host cell of (a) under  
conditions suitable for expression of the DNA  
molecule encoding the protein, such that LYC3  
protein is produced; and

(c) isolating the LYC3 protein so produced,

wherein said nucleotide sequence comprises nucleotides  
81-521 of SEQ ID NO:3.

12. (CANCELLED)

13. (CANCELLED)

14. (CANCELLED)

15. (PREVIOUSLY PRESENTED) An isolated LYC3 protein  
having lysozyme activity comprising a polypeptide  
having an amino acid sequence selected from the group  
consisting of SEQ ID NO:4 and amino acids 19-146 of  
SEQ ID NO:4.

Please **cancel** claim 16 without prejudice.

16. (CANCELLED)

Please **cancel** claim 17 without prejudice.

17. (CANCELLED)

18. (PREVIOUSLY PRESENTED) An isolated DNA molecule having a nucleotide sequence encoding a lysozyme consisting of the amino acid sequence of amino acids 19-146 of SEQ ID NO:4, wherein said lysozyme has lysozyme activity.